

Detailed program

Monday, June 30

08:00	Registration
08:45	Opening
Session 1	Recognition
09:00	Szabolcs Urbán and Antal Nagy: <i>Tumor detection and segmentation on multimodal medical images</i>
09:20	Bálint Fodor: <i>Sum of Gaussian Functions Based 3d Point Cloud Registration</i>
09:40	Melinda Katona and László G. Nyúl: <i>Fast recognition of natural feature identifiers by a mobile phone</i>
10:00	Péter Bodnár and László G. Nyúl: <i>QR Code Localization Using Boosted Cascade of Weak Classifiers</i>
10:20	Erika Griechisch and Gábor Németh: <i>Offline Signature Verification Using Similarity Measure for Skeletons</i>
10:40	Break
11:00	Plenary Talk Prof. Pawel Pilarczyk: <i>Computational homology</i>
11:50	Break
Session 2	Medical Solutions
12:00	Gyula Vörös: <i>Expanding Small Corpora to Aid People with Communication Impairments</i>
12:20	Tamás Dániel Nagy, Gergely Vadai, Zoltán Gingl, László Rudas, Éva Zöllei: <i>Phase delay detecting methods to analyse the correlation between blood pressure and paced breathing</i>
12:40	Lunch
Session 3	Software Quality
14:00	Gergő Balogh: <i>Validation of the City Metaphor in Software Visualization</i>
14:20	Gergely Ladányi: <i>Business Process Quality Measurement Using Advances in Static Code Analysis</i>
14:40	Csaba Faragó: <i>Variance of Source Code Quality Change Caused by Version Control Operations</i>
15:00	Peter Szűcs: <i>Challenges in Real-time Collaborative Editing</i>
15:20	Break
Session 4	Software Testing
15:40	Péter Hudák, and László Lengyel: <i>Test-driven Verification of Model Transformations</i>
16:00	Ferenc Horváth, Richárd Dévai, and Tamás Gergely: <i>Structural Information Aided Automated Test Method for Magic 4GL</i>
16:20	Ferenc Horváth, Benjamin Mészáros, and Tamás Gergely: <i>Usability Testing of Android Applications</i>
16:40	Break
Session 5	Mobile and ERP
17:00	Krisztián Pándi, and Hassan Charaf: <i>Load Balancing Strategy in Mobile Resource Management</i>
17:20	Attila Selmecsi, and Tamás Gábor Orosz: <i>New Approaches of Storing ERP Data</i>
17:40	Attila Selmecsi, and István Orosz: <i>Workflow Processing Using SAP Objects</i>
18:00	Free program
19:00	Reception at the Rector's Building

Tuesday, July 1

Session 6	Compilers and Languages
09:00	Zsombor Paróczy: <i>x86 Instruction Reordering and Split-stream Compression Benchmark</i>
09:20	Máté Karácsony: <i>Comparison of Source Code Transformation Methods for Clang</i>
09:40	Áron Baráth, and Zoltán Porkoláb: <i>Language Support for High-level Worst-case Execution Time Estimation</i>
10:00	Boldizsár Németh, and Zoltán Kelemen: <i>Derivable Partial Locking for Algebraic Data Types</i>
10:20	Zsolt Borsi: <i>A Translation of Interaction Relationships into SMV Language</i>
10:40	Break
11:00	Plenary Talk Prof. Zoltán Horváth: <i>Research, Innovation and Education in Infocommunication Technology</i>
11:50	Introduction of Association of Hungarian PhD and DLA Students, Scientific Section of Mathematics and Informatics
12:00	Plenary Talk Prof. John Milton: <i>Transient stabilization of unstable states: why a stick balanced at the fingertip always falls?</i>
12:50	Lunch
Session 7	Image Processing
14:00	Roberto Giachetta and István Fekete: <i>A case study of advancing remotely sensed image processing</i>
14:20	László Kundra and Péter Ekler: <i>Methods for Feature Point Aggregation of Optical Flow for Orientation Estimation</i>
14:40	Norbert Hantos and Péter Balázs: <i>Eliminating Switching Components in Binary Matrices</i>
15:00	Zoltán Ozsvár and Péter Balázs: <i>Reconstruction of $h\nu$-Convex Binary Matrices from Horizontal and Vertical Projections Based on Simulated Annealing</i>
15:20	Break
Session 8	Mathematical Problems/Models
15:40	Zoltán Gilián: <i>Generalized Haar systems toolbox for MATLAB</i>
16:00	Elvira Antal and Tamás Vinkó: <i>Mathematical modeling of max-min fair bandwidth allocation in BitTorrent communities</i>
16:20	Zoltán Németh: <i>Visualization and analysis of financial transaction networks - a multidimensional modeling approach</i>
16:40	Social Program Visit the Informatorium at Szent-Györgyi Albert Agóra
19:00	Gala Dinner at the Rector's Building

Wednesday, July 2

Session 9	Artificial Intelligence
09:00	Gábor Nagy and Sándor Kazi: <i>Filtering Noise from Stock related Twitter Messages</i>
09:20	Sándor Kazi and Gábor Nagy: <i>A Scalable Parallel Boosting Scheme for Bulk Synchronous Parallel Environments</i>
09:40	Zsombor Paróczy, Bálint Fodor, and Gábor Szűcs: <i>Diversification for Content-Based Visual Information Retrieval System for Video</i>
10:00	Gábor Nagy, Sándor Kazi, and Győző Papp: <i>Distributed News Analytics Framework: Collecting News Feed Sources from Social Media</i>
10:20	Balázs L. Lévai: <i>Automatic Failure Detection and Monitoring of Ventilation and Cooling Systems</i>
10:40	Break

Session 10	Optimization
11:00	Balázs L. Lévai: <i>Automatic Design of LED Street Lights</i>
11:20	Dávid Szalóki: <i>Camera Placement Optimization in Object Localization Systems</i>
11:40	László Hajdu, Miklós Krész and Attila Tóth: <i>Two-phase graph coloring heuristic for crew rostering</i>
12:00	Viktor Árgilán, Balázs Dávid, János Balogh, József Békési and Miklós Krész: <i>Heuristic approach for the driver scheduling problem</i>
12:20	Balázs Dávid, János Balogh, Viktor Árgilán and Miklós Krész: <i>Integrating fast heuristics into a decision support system for vehicle rescheduling</i>

12:40	Lunch
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Session 11	Data mining
14:00	István T. Nagy: <i>Automatic Detection of Multiword Expressions with Dependency Parsers on Different Languages</i>
14:20	György Kovács and László Tóth: <i>The Joint Optimization of Spectro-Temporal Features and Deep Neural Nets for Robust ASR</i>
14:40	András London and Tamás Németh: <i>Application of graph based data mining techniques in administrative systems of education</i>
15:00	Gábor Imre and Gergely Mezei: <i>Graph Transformation-based Opinion Mining in Web Queries</i>

15:20	Closing
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